

Docket No. 4522/00019

Patent

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re application of: Wikiel, et al.

Application No.: 10/621,247 Group No.: Filed: 16 July 2003 Examiner:

Title: Method and Apparatus for Real Time Monitoring of Industrial

Electrolytes

Commissioner for Patents P.O. Box 1450 Alexandria, VA 22313-1450

EXPRESS MAIL CERTIFICATE

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PTO-1449: 6 pages (with references AA-AS; AT-BH; BI-BW; BX-CN; CO-DE; DF-DN)
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Docket No. 04522/00019

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

APPLICANT:

Wikiel, et al.

EXAMINER:

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SERIAL NO.

10/621,247

GROUP:

FILED:

16 July 2003

FOR:

Method and Apparatus for Real Time Monitoring of

Industrial Electrolytes

Commissioner for Patents P.O. Box 1450 Alexandria, VA 22313-1450

Sir:

INFORMATION DISCLOSURE STATEMENT

In accordance with the provisions of 37 C.F.R. §§1.56 and 1.97, Applicant herewith submits the publications and/or patents shown on the attached form PTO-1449, for consideration by the Examiner in connection with the examination of the above-identified patent application.

REMARKS

In accordance with the provisions of 37 C.F.R. §1.97, this statement is being filed (CHECK ONE):

- X (1) within three (3) months of the **Filing Date** or before the mailing date of the **First Office Action** on the merits; or
- __ (2) after the period defined in (1) but before the mailing date of a **Final Rejection** or **Notice of Allowance**, and the requisite Certification or fee under Rule 1.17(p), is included herein; or
- __ (3) after the mailing date of a **Final Rejection** or **Notice of Allowance** but before the payment of the **Issue Fee**, and the requisite Certification and fee are included herein.

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It is respectfully requested that each of the documents shown on the attached form(s) PTO-1449 be made of record in this application. Copies of these documents (CHECK ONE):

are enclosed herewith; or _X__

are in the file of related application Serial No., filed and are thus not being resubmitted herein.

Early examination and allowance of the present application are respectfully solicited.

FEE AUTHORIZATION

Should any fee associated with the submission of this paper not be attached hereto as a check, the Commissioner is authorized to charge the missing fee to our Deposit Account, No. 19-0733. Any overpayments should be credited to said Deposit Account.

Respectfully submitted,

Ernest V. Linek (Reg. No. 29,822)

Attorney for Applicant BANNER & WITCOFF, LTD.

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Date: 26 August 2003

Document No. 92489

USPTO Form 1449 Attorney Docket No. 4522/00019 U.S. Department of Commerce Serial No. 10/621,247 AUG 2 6 2003 Patent and Trademark Office Applicant(s): Wikiel, et al. INFORMATION DISCLOSURE CITATION Pager of 6 Group: Filing Date: July 16, 2003 U.S. PATENT DOCUMENTS Examiner Patent No. Date Class Subclass Filing Date Initial (if appropriate) 153.1 AA 4,917,774 April 17, 1990 Fisher 204 Eliash 204 153.1 AB 5,298,129 March 29, 1994 June 29, 1993 Sonnenberg, et al. 205 81 AC 5,223,118 AD 5,192,403 March 9, 1993 Chang, et al. 204 153.1 March 23, 1993 AE 5.196.096 Chang, et al. 204 153.1 AF December 23, 1986 204 4,631,116 Ludwig 1 T AG 4,812,210 March 14, 1989 Bonivert, et al. 204 1 T March 29, 1994 204 153.1 AH 5,298,131 Eliash, et al. Phan, et al. 204 153.1 ΑI 5,336,380 August 9, 1994 AJ 5,755,954 May 26, 1998 Ludwig, et al. 205 794 NON PATENT LITERATURE DOCUMENTS (Include the name of the Author, (IN CAPITAL LETTERS), title of the Article (when appropriate), title of the item, date, page(s), volume issue number(s), publisher, city and/or country where published. ΑK HAAK, et al. "Cyclic Voltammetric Stripping Analysis of Acid Copper Sulfate Plating Baths, Part One Polyether-Sulfate-Based Additives", Tench Plating and Surface Finishing, 68 (4) 1981, 52. ALHAAK, et al. "Cyclic Voltammetric Stripping Analysis of Acid Copper Sulfate Plating Baths, Part Two, Sulfoniumalkanesulfonate-Based Additives", Tench Plating and Surface Finishing, 69 (3) 1982, 62. GRAHAM & LINDBERG, "Steady-State Chemical Analysis of Organic Suppressor Additives used in Copper Plating AM Baths", ECS Meeting Honolulu, 1999, Abstract # 729. AN FREITAG, et al. "Determination of the Individual Additive Components in Acid Copper Plating Baths", Plating and Surface Finishing, 70, 10, 1983, 55. AO FENCH & WHITE, "Cyclic Pulse Voltammetric Stripping Analysis Of Acid Copper Plating Baths", J. Electrochem. Soc., 132, 4, 1985, 831. KRAFCIK, et al. "An In-Situ Sensor for Monitoring Organic Additives in Copper Plating Solutions", Proceedings of the World Congress on Metal Finishing, Interfinish 92, International Union of Surface Finishing, Brasil, October 1992. AQ-NEWTON & KAISER, "Analysis of Copper Plating Baths – New Developments", ECS Meeting Toronto, 1999, Abstract # HORKANS & DUKOVIC, "Monitoring of SPS-Based Additives in Cu Plating", ECS Meeting Toronto, 1999, Abstract # 360. AR-BROWN & BEAR, "Chemometric Techniques in Electrochemistry: A Critical Review", Critical Reviews in Analytical

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IN.		Applicant(s): Wikiel, et al.		
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